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NEPTUNE.

MARKREE. In the Meridian. (E. J. Cooper, Esq. and Mr. A. Graham.)

1848.	Greenwich M.T.	R.A.	N.P.D.
	h m s	h m s	° ′ ″
July 28	14 22 51·3	22 16 30·64	101 25 34·0
Aug. 17	13 2 15·8	14 33·04	36 55·7
22	12 42 5·4	14 2·02	39 53·8
29	12 13 50·6	13 18·50	44 3·2
Sept. 22	10 37 8·8	10 58·10	101 57 9·5
29	10 9 2·4	10 22·89	102 0 24·0
Oct. 6	9 41 0·5	9 52·24	3 12·0
10	25 1·2	9 36·53	4 36·6
13	13 2·7	9 25·73	5 34·9
14	9 3·5	9 22·46	5 53·0
16	9 1 6·0	9 15·95	6 28·2
17	8 57 31·9	9 12·88:	6 44·1
18	53 7·7	9 10·17	7 0·1
19	49 9·1	9 7·51	7 17·0
24	29 32·3	8 54·80	8 20·3
25	25 19·1	8 52·92	8 29·9
27	17 23·4	8 48·99	8 50·8
31	8 1 33·4	8 42·64	9 21·0
Nov. 1	7 57 36·2	8 41·36	9 27·5
2	53 39·2	8 40·24	9 34·4
3	49 42·3	8 39·21	9 38·3
7	33 55·8	8 36·39	9 49·5
9	26 3·3	8 35·93	9 51·4
15	7 2 29·1	8 36·98	9 40·9
20	6 42 54·4	8 41·94	9 10·5
22	35 5·1	8 44·53	8 53·5
24	6 27 16·8	8 48·07	8 32·5
Dec. 8	5 32 49·7	9 25·60	4 54·8
13	5 13 31·3	22 9 44·99	102 3 4·9

Oct. 17. The planet exceedingly faint; got but two wires; cannot depend on the bisection.

LIVERPOOL. Equatoreal. (Mr. Hartnup.)

1849.	Greenwich M.T.	R.A.	N.P.D.	Star of Comp.
	h m s	h m s	° ′ ″	
Jan. 17	6 36 43·7	22 13 15·95	101 43 15·3	7740, 7821 B.A.C.
26	5 58 15·9	22 14 25·94	101 36 43·8	— —

Corrected for refraction and parallax.

"The N.P.D. are from the readings of the circle.
"The places of the comparison stars are taken from the catalogue cited."

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Durham. Equatoreal and Mer. Circle. (Prof. Chevallier and Rev. M. Thompson.)

1848.	Greenwich M.T.	R.A.	Comp^d—Obs^d.	N.P.D.	Comp^d—Obs^d.	Obs.
	h m s	h m s	s	° ′ ″	″	
Sept. 18	10 25 47·0	22 11 19·61	+1·59			Mer.
	11 1 58·2	19·36	1·70	101 55 9·0	−7·5	1
19	8 3 37·7	11 14·94	1·31	101 55 35·8	7·6	4
	10 21 45·5	14·08	1·65	40·6	9·5	Mer.
Oct. 9	9 1 34·0	9 40·38	1·55	102 4 14·3	7·5	—
24	8 1 50·0	8 54·93	1·65	8 20·8	11·5	—
25	7 57 51·9	8 52·72	1·75	8 28·9	8·5	—
Nov. 7	7 6 28·7	8 36·19	1·98	9 47·6	6·5	—
Dec. 4	5 20 54·5	9 12·27	1·78	6 10·9	9·1	—
5	6 30 15·9	9 15·53	1·80	102 5 50·2	7·5	6
22	6 46 25·1	10 27·27	2·18	101 58 59·9	7·6	6
28	5 50 33·6	11 0·90	1·55	55 52·5	6·5	4
1849. Jan. 15	6 13 48·3	13 1·00	1·42	44 40·1	8·3	2
17	6 14 2·9	22 13 15·12	+2·21	101 43 14·0	−5·8	6

Corrected for parallax and refraction, and compared with Mr. Adams's *Ephemeris.*

The second observation on Sept. 18, and the first observation on Sept. 19, were made with the Fraunhofer Equatoreal, and the star of comparison was B.A.C. 7740. On Dec. 5th and the following days, *Neptune* was compared in like manner with B.A.C. 7821. The other observations were made in the meridian.

The positions of the stars have been assumed from the following mean places, for Jan. 1, 1848, as determined by meridian observations :—

	R.A.	N.P.D.	No. of Obs.
	h m s	° ′ ″	
B.A.C. 7740	22 4 10·29	101 48 46·8	4
7821	22 18 36·84	101 59 54·0	5

LASSELL'S SATELLITE OF NEPTUNE.

Liverpool. (Mr. Lassell.)

Greenwich M.T.	Position.	Obs.	Distance.	Obs.
	°		″	
1848, Aug. 19·51	220	estd.	18·01	5
28·47	38·5	3		
Sept. 12·46	221·3	1		
18·47	223·8	4	16·21	4

Cambridge, U.S. (Professor W. C. Bond.)

1847.	Cambridge M.T.	Position.	C^d—O^d.	Distance.	C^d—O^d.	Obs.
	h m	°	°	″	″	
Oct. 25	7 45	230	+0·3	15·4	−0·3	3
27	7 30	29	+5·4	13·6	+0·3	7
28	7 35	47	+3·2	14·9	−0·4	9
30	7 0	218	−3·7	15·6	−1·4	3
Nov. 2	7 15	34	+1·8	14·0	+0·8	5

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